

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

A resonance element array 200 is disposed between a primary radiator 1 and a lens 3. In the resonance element array 200, resonance elements of linear conductors and variable reactance circuits are arranged on a dielectric substrate. ~~Fixed resonance elements are excited by an electromagnetic wave from the primary radiator 1 such that a control voltage is applied to fixed variable reactance circuits by a control portion, and the direction of optical paths to be collimated by the lens 3 is electronically changed.~~ A control voltage is applied to a fixed variable reactance circuit by a control portion so that a fixed resonance element is excited by an electromagnetic wave from the primary radiator 1 and the direction of optical path to be collimated by the lens 3 is electronically changed. Thus, an antenna device, in which a beam scanning is speeded, power consumption for the beam scanning is reduced, operation noise in the beam scanning is eliminated, the reliability is increased, and, when required, the ~~beam direction the beam of~~ can be directed to any direction, can be obtained. Furthermore, when necessary, the beam radiation pattern can be changed.